T9100 & Cancel Panel

Paging System Transmitter

USER MANUAL

Installation, Warranty and Service Information

Long Range Systems UK Ltd | Link House | Leek Road | Milton | Stoke on Trent | Staffordshire | ST2 7AH | 01782 537000
www.lrspagers.co.uk | www.pagers.co | www.hospitalpagers.co.uk

Table Of Contents

The T9100 . . . . . **3**

Installation **3**

Hardware Provided 3

Optional Hardware 3

Hardware Setup Procedure 3

Overview of T9100 . . . . . **7**

Keypad 7

Antenna 8

Rest Terminals 8

Status LED 8

System Specifications 8

Using the T9100 . . . . . **9**

Time and Date 9

Paging 9

Cancel Page 9

User Preferences **10**

Display Current Settings 10

Antitheft 10

Display Clock 11

Vibe Level 11

Keytone 11

Preset Message 12

Repaging 13

Repeater Delay 13

Duty Pager 13

Restaurant ID 13

Station ID 14

POCSAG (FM) Start 14

Edit Manager Pager Number 14

Reset to Factory Default 14

Server Statistics 14

Range Test 16

Find ID 16

Pager Programming **17**

T9100 Cancel Panel **18**

Overview of T9100 Cancel Panel 18

Keypad 18
Using the T9100 Cancel Panel 19
Paging 19
Cancel Page 19
User Preferences 20
Paging from Cancel Panel 20
Associating the T9100 Cancel Panel to T9100 21
Setting T9100 Cancel Panel as UHF Master 22
Service Questions and Answers 23
LRS PAGERS AVAILABLE FOR THE T9100 24
USING THE SP5 24
Charging 24
Menus 24
Settings 26
Messages 26
Time 26
Reprogramming and Reset 26
USING THE LRS ALPHA E467 27
Menus 27
Power On/Off 27
Read Message 28
Delete Messages 28
Time/Date Set 28
Set Contrast 28
Auto ON/OFF 28
Set Keytone On/Off 28
Select Alert 29
USING THE STAR PAGER 30
Charging 30
Messaging 30
Cleaning & Charging Instructions for LRS Paging Equipment 31
Warranty 32

THE T9100 Installation:

Hardware Provided

Each transmitter kit contains the transmitter, Instruction Booklet, two antenna, one 9VAC 1.5A power adaptor, one Staff Name board, and four mounting bracket kits.

Optional Hardware

The T9100 and T9100 Cancel Panel have the ability to print a server report to a POS Printer. Contact LRS if you wish to purchase a printer.

Hardware Setup Procedure

1. Remove all items from their packaging.
2. Locate the silver connector on the top of the transmitter. Twist the antenna (about 3" long, BNC, silver bottom) onto the connector.
3. Locate the gold connector on the top of the transmitter. Twist the antenna (about 4" long, SMA, bends at right angle) onto the gold connector.

Note: Both antennas must be attached before turning on transmitter. Do not remove either antenna at any time due to risk of damage.

4. Mount the power supply in convenient location with access to 110V power.

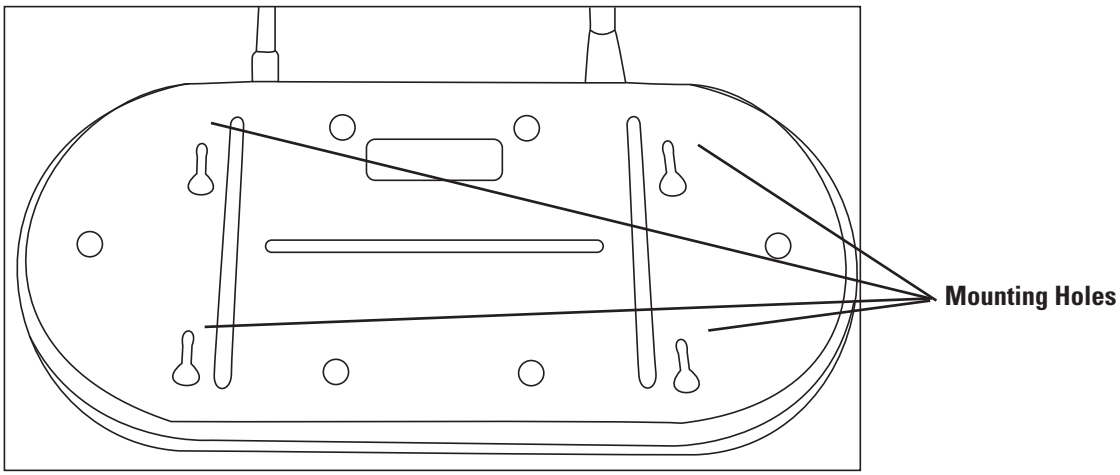
Mounting the Transmitter

The T9100 is designed to be mounted in various ways to accommodate the kitchen environment: to a horizontal surface (i.e. table, counter, shelf), to a vertical surface, or hanging to a wall or stand.

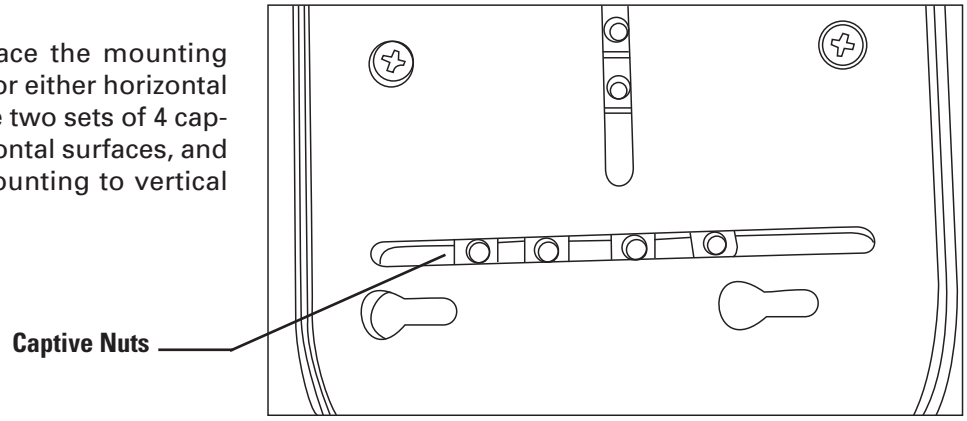
Caution: *Mounting with the antenna near any large metal objects will degrade the operating range.*

To place on a wall or stand, locate the four slots on the mounting plate. Then align four wall anchors (5mm diameter) into the wall to the mounting plate.

Panel and Wall Mount

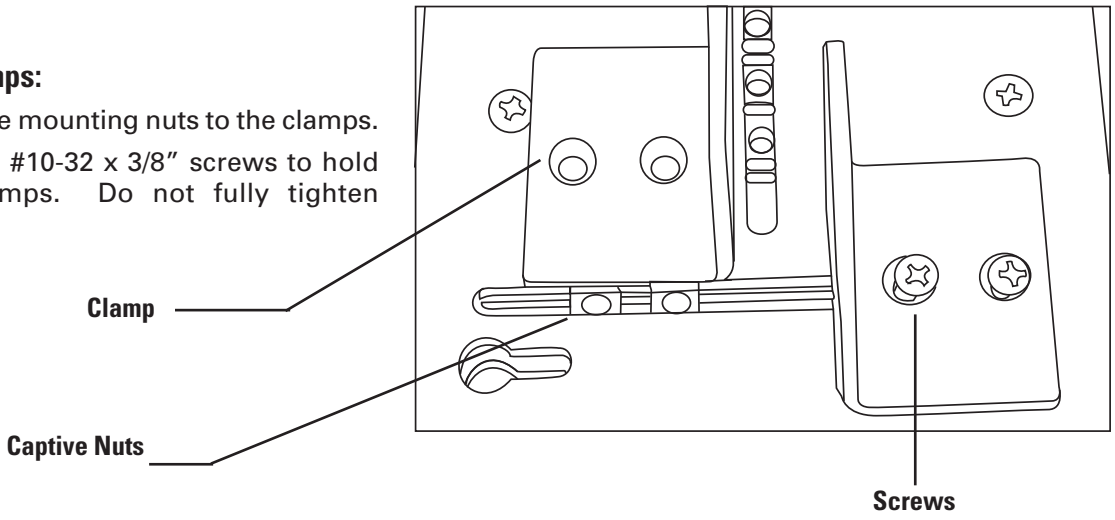


For mounting to surfaces, place the mounting brackets into the captive nuts for either horizontal or vertical mounting. There are two sets of 4 captive nuts for mounting to horizontal surfaces, and one set of captive nuts for mounting to vertical surfaces.

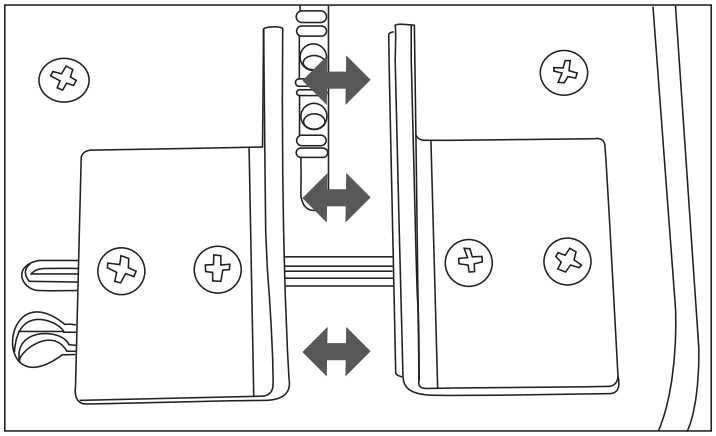


To attach the clamps:

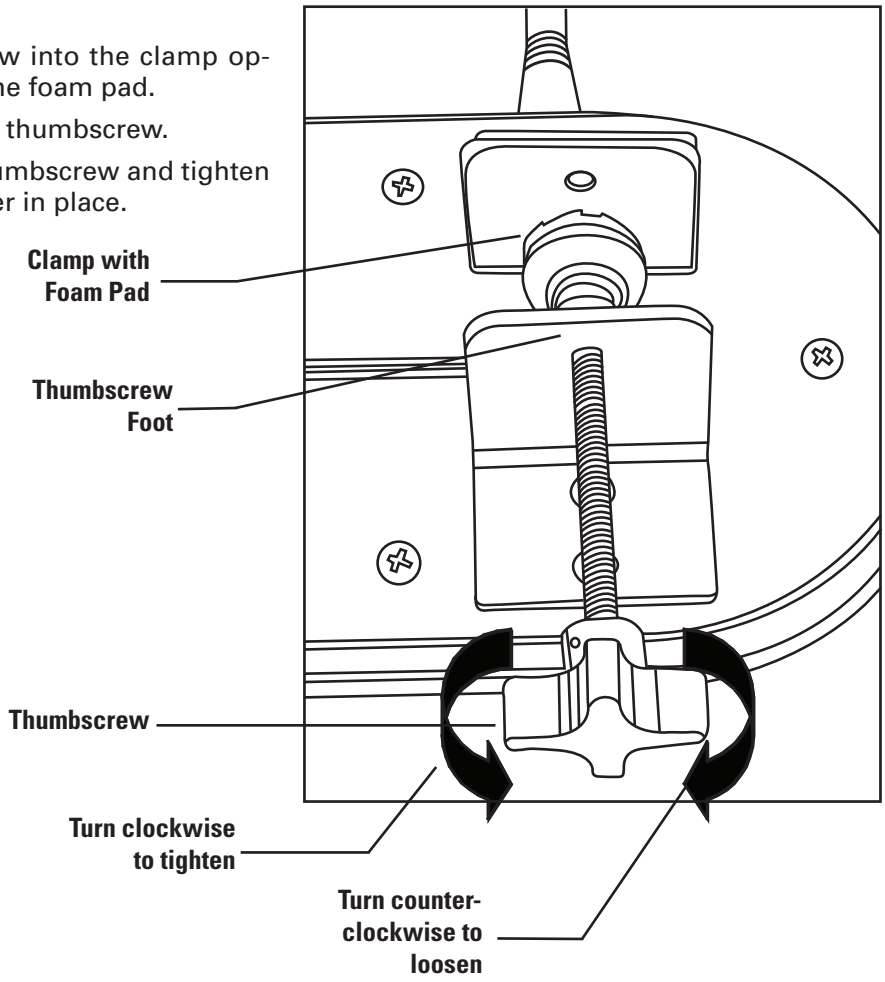
1. Align the mounting nuts to the clamps.
2. Use the #10-32 x 3/8" screws to hold the clamps. Do not fully tighten screws.



3. Adjust the distance between clamps until fits to the mounting surface.
4. Tighten screws.

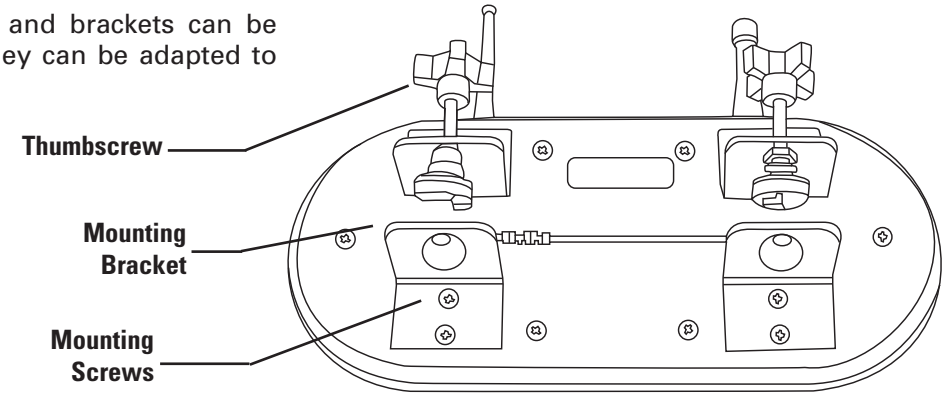


5. Place the thumbscrew into the clamp opposite the one with the foam pad.
6. Attach the foot of the thumbscrew.
7. Adjust position of thumbscrew and tighten to hold the transmitter in place.

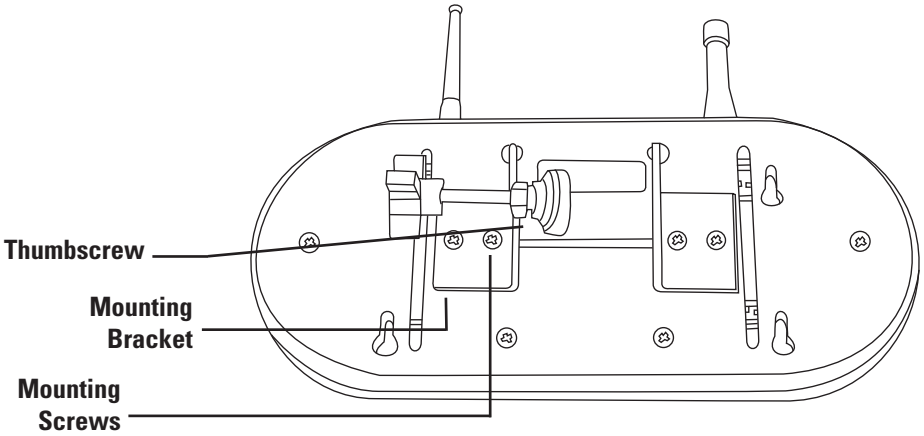


Because the thumbscrews and brackets can be mounted in many ways, they can be adapted to most locations is possible.

Horizontal Mount



Vertical Mount

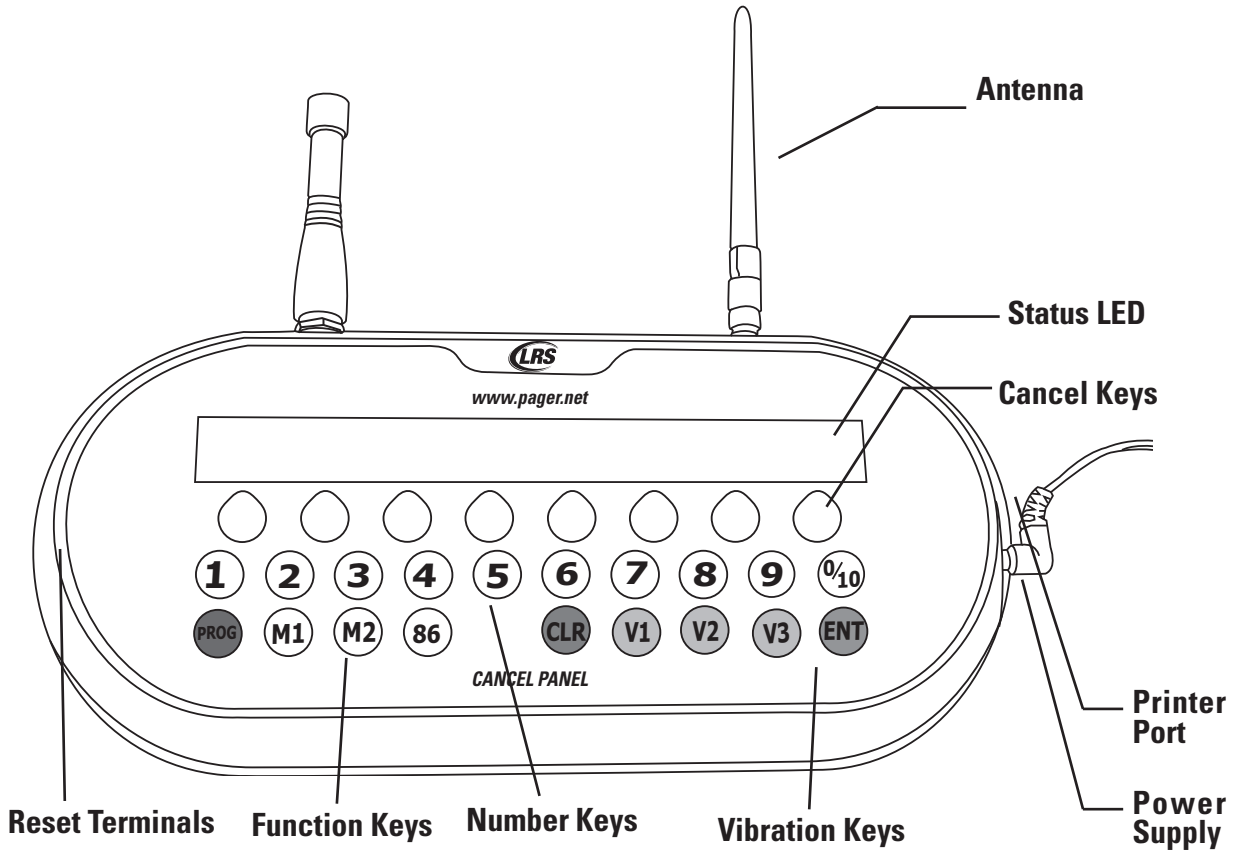


Power Connection

1. Plug the power supply into a standard 110V outlet and the barrel connector end into the jack on the side of the transmitter.

2. Upon completion of the setup, make sure pagers are fully charged.

Overview of T9100



Keypad

Function Keys

The function keys are located along the bottom row of the T9100.

- **M1 & M2** used to page and program Manager Pagers.
- **86** "All Call" button used to page all pagers.
- **CLR** used to clear an entry or to back up one menu level.
- **PROG** press once to program pagers, press a second time to access the menu functions.
- **ENT** used to enter functions.

Vibration Keys

V1, V2 and V3 select the number of vibrations a pager will respond with. This button is pressed before paging a pager. Sends message 1, 2 or 3 to Alpha pagers.

Number Keys

Number keys 1 through 30 located along the center row. Number 10 is also 0 when Programming, using the Menus, or paging pagers greater than 30.

Cancel Keys

The row of keys located below the display. These keys will cancel a call to the pager number shown on the display immediately above the respective key. The Cancel Keys also are used during menu selection.

Antenna

The T9100 utilizes 2 antennas when transmitting.

A UHF antenna, located to the user's left, is used to communicate with the LRS pagers.

A 2.4 GHz antenna, located to the user's right, communicates with the T9100 Cancel Panel.

Reset Terminals

The Reset Terminals are located to the user's left side on the transmitter. These are used to reset a pager for programming.

Status LED

This LED will light green to indicate that the T9100 is sending information to the pagers or T9100 Cancel Panel.

System Specifications

Notice: Operation is subject to the following:

- This device may not cause interference
- This device will accept any interference including interference that may cause undesired operation of the unit.

Required Voltage:	*One 110/220V outlet for the T9100 transmitter*
Operating Frequency:	*420-470 MHz*
Radiated Power:	*< 4900 micro-volts/meter*
Operating Range:	*Dependent upon pagers used*

Time and Date

Initial Power Up

During power up, to enter the time and date:

- At [enter time], enter the hh mm (hour, minute) using the number keys, and then press ENT.
- Press 2 for AM or 10 for PM.
- At [date], enter the mm dd yy (month, day, year) using the number keys, and then press ENT.

Clock Menu

The time and date can also be set from the Clock menu by:

- Press PROG – PROG – 1 – ENT.
- Press the button under set.
- At [enter time], enter the hh mm (hour, minute) using the number keys, and then press ENT.
- Press the button under AM or PM.
- At [date], enter the mm dd yy (month, day, year) using the number keys, and then press ENT.
- If done, press Yes (button under Yes), if not, press No (button under No.)

Note: The transmitter will use a default selection of "Yes" after 30 seconds of inactivity.)

Send Time

This feature will automatically send the current time and date to the pagers every 15 minutes. The default setting is OFF.

To enable:

- Press PROG – PROG – 1 – ENT.
- Press button under Send.
- At [Auto] select button under ON.
- If done, select Yes (button under Yes), if not, select No (button under No.)

To disable:

- Press PROG – PROG – 1 – ENT.
- Press button under Send.
- At [Auto] Press select button under OFF.
- If done, select Yes (button under Yes), if not, select No (button under No.)

Paging

To page pagers 1 through 99, enter the 2 digit pager number using the number keys. The 10 key also is used as the 0 key.

All Call

If all staff pagers need to be called at once, press the 86 key.

Manager Pagers

To page the managers, press the M1 for the #1 manager pager or M2 for the #2 manager pager.

Cancel Page

To clear/cancel a pager to the server, press the Cancel Key under the pager number.

User Preferences

The T9100 will come with factory settings for normal operating use. Some features can change per the user's custom needs.

Display Current Settings

To view the current settings for the transmitter:

- Press PROG – PROG – 1 – 6 – ENT.
- Press ENT to scroll through each item:
- Date
- Restaurant ID Number
- Station ID Number
- FM Start point
- Pre-canned Message
- Repage interval
- M1 (Manager 1) information
- M2 (Manager 2) information
- Duty Pager information
- Cancel Panel set to page (yes or no) (Note: Only seen on Cancel Panel)
- UHF Master
- T9100 is set to Master (yes or no)
- Joined or Not Joined
- Pan and Channel ID
- Node ID
- Channel Scan is on or off
- Synched on or off
- Beeper (keytone) is on or off
- Code Version
- Error Count
- If done, press 6 for Yes, if not, press 10 for No.

Antitheft

Note: This feature is ONLY for text pagers.

This feature will make a pager beep and/or vibrate continuously if goes beyond the range of the transmitter.

To enable:

- Press PROG – PROG – 4 – ENT.
- At [theft] press button under ON.
- If done, select Yes (button under Yes), if not, select No (button under No.).

To disable:

- Press PROG – PROG – 4 – ENT.
- At [theft] press button under OFF.
- If done, select Yes (button under Yes), if not, select No (button under No.)

Display Clock

The default setting for the clock is ON during normal operation.

To disable:

- Press PROG – PROG – 1 – 0 – ENT.
- Press button under Clock for the Clock sub-menu.
- At [clock] Press button under OFF.
- If done, select Yes (button under Yes), if not, select No (button under No.)

To enable:

- Press PROG – PROG – 1 – 0 – ENT.
- Press button under Clock for the Clock sub-menu.
- At [clock] Press button under ON.
- If done, select Yes (button under Yes), if not, select No (button under No.)

Vibe Level

The default Vibration Level for pagers can be set via:

1. Pressing the V1, V2, or V3 buttons for levels 1, 2, and 3 respectively.
2. From the menus:
   - Press PROG – PROG – 1 – 2 – ENT.
   - Enter a value of 1, 2, or 3 from the keypad
   - If done, select Yes (button under Yes), if not, select No (button under No.)

Keytone

The transmitter default is for tones to sound with each key press.

To disable:

- Press PROG – PROG – 2 – 2 – ENT.
- At [beeper] press button under OFF.
- If done, select Yes (button under Yes), if not, select No (button under No.)

To enable:

- Press PROG – PROG – 2 – 2 – ENT.
- At [beeper] press button under ON.
- If done, select Yes (button under Yes), if not, select No (button under No.)

Preset Message

The LRS transmitters come with a list of preset messages that can be sent to Alpha Pagers. To edit which message is sent:

- Press PROG – PROG – 1 – 3 – ENT.
- Enter the preferred message from the table, then press ENT.
- If done, select Yes (button under Yes), if not, select No (button under No.)

Pre Loaded Messages

000	Phone Call	**020**	Starter	**040**	Door	**060**	Car
001	Sales Call	**021**	Service drive	**041**	Survey	**061**	Bus
002	Manager	**022**	Showroom	**042**	T-nnn Q-mm	**062**	Bay
003	Customer	**023**	Parked Call	**043**	Break	**063**	Low battery
004	Room	**024**	Voice Mail	**044**	Fire	**064**	Error
005	Visitor	**025**	Dressing room	**045**	Unit	**065**	Exit
006	call Ext	**026**	Price check	**046**	Window	**066**	Fax
007	MTG Room	**027**	Department	**047**	Nurse	**067**	host
008	Lane	**028**	Cashier	**048**	Register	**068**	Space
009	Aisle	**029**	Office	**049**	Owner	**069**	Location
010	Void	**030**	Table	**050**	Check	**070**	Nursery
011	Stamps	**031**	Winner	**051**	Drink	**071**	Teller
012	Change	**032**	Pickup	**052**	Food	**072**	Officer
013	Station	**033**	Dock	**053**	Service	**073**	Buffet
014	Machine	**034**	You have mail	**054**	Seat	**074**	Diaper change
015	Operator	**035**	Table ready	**055**	Booth	**075**	Child crying
016	Emergency	**036**	No special	**056**	Lobby	**076**	To nursery
017	XX Minutes	**037**	Hole	**057**	Help		
018	Tee	**038**	Kitchen	**058**	Restroom		
019	Pro Shop	**039**	Bar	**059**	Valet		

Repaging

Repaging sends repeated messages to the pagers.

Server

To set the re-page time for Server pagers:

- Press PROG – PROG – 6 – ENT.
- Press button under Repage.
- At [time] use the number keys to enter as mm ss (minute, seconds), then press ENT. The screen will briefly show the updated re-page time.
- If done, select Yes (button under Yes), if not, select No (button under No.)

Manager

To set the Manager to be paged once after the third re-page:

- Press PROG – PROG – 6 – ENT.
- Press button under More.
- At [mgr] press button under Mgr.
- Press button On.
- If done, select Yes (button under Yes), if not, select No (button under No.)

To turn Off the Manager to be paged:

- Press PROG – PROG – 6 – ENT.
- Press button under More.
- At [mgr] press button under Mgr.
- Press button under Off.
- If done, select Yes (button under Yes), if not, select No (button under No.)

Repeater Delay

When using a repeater it may be necessary to add a delay between pages when paging multiple pagers to allow the repeater time to repeat the signal and detect the next one. Default setting is OFF.

To add repeat Delay:

- Press PROG – PROG – 6 – ENT.
- Press button under More.
- Press button under repeater.
- At [rPt], press button under ON to enable the Repeat Delay. Press button under OFF to disable Repeat Delay.
- If done, select Yes (button under Yes), if not, select No (button under No.)

Duty Pager

The duty pager is used to remind someone of a periodic repetitive task. To setup:

- Press PROG – PROG – 7 – ENT.
- At [duty] press button under On. (After 10 seconds, the screen will default to Off.)
- Enter the Duty Pager number with the keypad, then press ENT.
- Enter Vibe Level (value of 1, 2, or 3), then press ENT.
- Enter the repage time as mm ss (minutes, seconds), then press ENT.
- Screen will briefly display the new settings.
- If done, select Yes (button under Yes), if not, select No (button under No.)

To disable the Duty Pager:

- Press PROG – PROG – 7 – ENT.
- At [duty] press button under Off.
- If done, select Yes (button under Yes), if not, select No (button under No.)

Restaurant ID

The ID of the Restaurant system. Set if more than one LRS system is in an area to prevent interference. To set:

- Press PROG – PROG – 1 – 4 – ENT.
- At [rest ID], enter a value from 0 to 9, and then press ENT.
- If done, select Yes (button under Yes), if not, select No (button under No.)

Station ID

The station that will be displayed on a pager if more than 1 station is in use. To set:

- Press PROG – PROG – 1 – 1 – ENT.
- At [stn ID], enter a value from 0 to 9, and then press ENT.
- If done, select Yes (button under Yes), if not, select No (button under No.)

POCSAG (FM) Start

- Press PROG – PROG – 8 – ENT.
- Press button under FM Start (Note: A 10 second delay will default to FM Start).
- Set the start point at value from 00 to 99, and then press ENT.
- If done, select Yes (button under Yes), if not, select No (button under No.)

Edit Manager Pager Number

In the event the Manger's pager numbers are changed, to change the T9100:

- Press PROG – PROG – M1. (or M2)
- At [MGR1 num], enter the new manger number from the keypad (value from 0 to 99), then press ENT.
- Enter the Vibration Level (Value of 1, 2, or 3), then press ENT.
- If done, select Yes (button under Yes), if not, select No (button under No.)

Reset to Factory Default

Note/Caution: If you reset the T9100 to factory defaults the system ID, vibration mode, and station ID could be reset and you may have to re-set these to work with your existing pagers. If you still want to proceed with this function, do the following:

- Press PROG – PROG – 2 – 1 – ENT.
- At [reset] press button under Yes. (Select No to keep current settings.)
- If done, select Yes (button under Yes), if not, select No (button under No.)

Server Statistics

The T9100 can track the daily statistics of the number of times a server was paged, the server's average response time, and the number of times a manager is paged.

To enable Server Statistics:

- Press PROG – PROG – 2 – 3.
- Press ENT.
- At [Stats], press button under ON.
- Enter the start time (example 3 for 3 AM or 3 PM) and then press ENT.
- Press button under AM or PM.
- The transmitter's memory will clear.
- If done, select Yes (button under Yes), if not, select No (button under No.)

Notes:

- At the set time, the daily report will print to the POS Printer.
- At the set time, the memory will also clear to begin a new set of daily statistics.

To disable the Server Statistics:

- Press PROG – PROG – 2 – 3.
- Press ENT.
- At [Stats], press button under OFF.
- If done, select Yes (button under Yes), if not, select No (button under No.)

Printing Statistics

Note: Server Stats needs to be turned ON before Stats can be viewed or printed.

The current POS Printer supported for the T9100 is the Star TSP650.

Attach the DB25 to DB9 adapter between the printer and the serial cable. Then connect the serial cable to the serial port of the T9100.

To print a current view of the Server Statistics:

- Press PROG – PROG – 2 – 4 – ENT.
- Enter a server number and press ENT.
- Press button under PRINT.
- The statistics will now print.
- If done, select Yes (button under Yes), if not, select No (button under No.)

Note: The Statistics will also print at the time set in the Stats menu.

Example Print

Date:
Time:

Server Response Report

Svr	Pages	A.R.T.	Mgr
1	5	00:44	02
5	4	00:29	01
12	3	00:15	--
17	4	00:25	01

Svr = Server
Pager = # of pages in last 24 hours
A.R.T. = Average Response Time
Mgr = # of times manager was paged

Viewing Statistics

To View the current Server Statistics:

- Press PROG – PROG – 2 – 4.
- Enter a server number and press ENT.
- Press button under VIEW.
- Press ENT to scroll through the list of servers. (The list will start at the number entered and will continue to the end of the list or until CLR is pressed.)
- If done, select Yes (button under Yes), if not, select No (button under No.)

Example Statistics View:

Server#	# of Pages in 24 hr Period	Average Response time (mm:ss)	# of Times Manager Paged
1	05	00:44	02

Range Test

This can be used to determine the effective range of the T9100 in your environment. To start the range test:

- Press PROG – PROG – 8 – ENT.
- Press button under Range. The Range Test will begin automatically.
- Stop the Range Test by pressing any button.
- If done, select Yes (button under Yes), if not, select No (button under No.)

Find ID

- Press PROG – PROG – 1 – 0 – ENT.
- Press button under ID. (Note: A 10 second delay will default to ID.)
- To start locating the ID, select Yes. (To not locate the ID, select No.)
- The transmitter will begin by transmitting on ID 0 (zero). If the pager received the page, at the prompt [receive] select Yes. If not, select No. The transmitter will automatically increment to the next ID and page. Repeat this step until the pager receives the page.
- If done, select Yes (button under Yes), if not, select No (button under No.)

Pager Programming

Star and Alpha Pagers can be reprogrammed from the T9100 transmitter. If the pagers need to have their identification code reprogrammed, contact LRS before proceeding. The following is the basic procedure to use:

For Server Pagers:

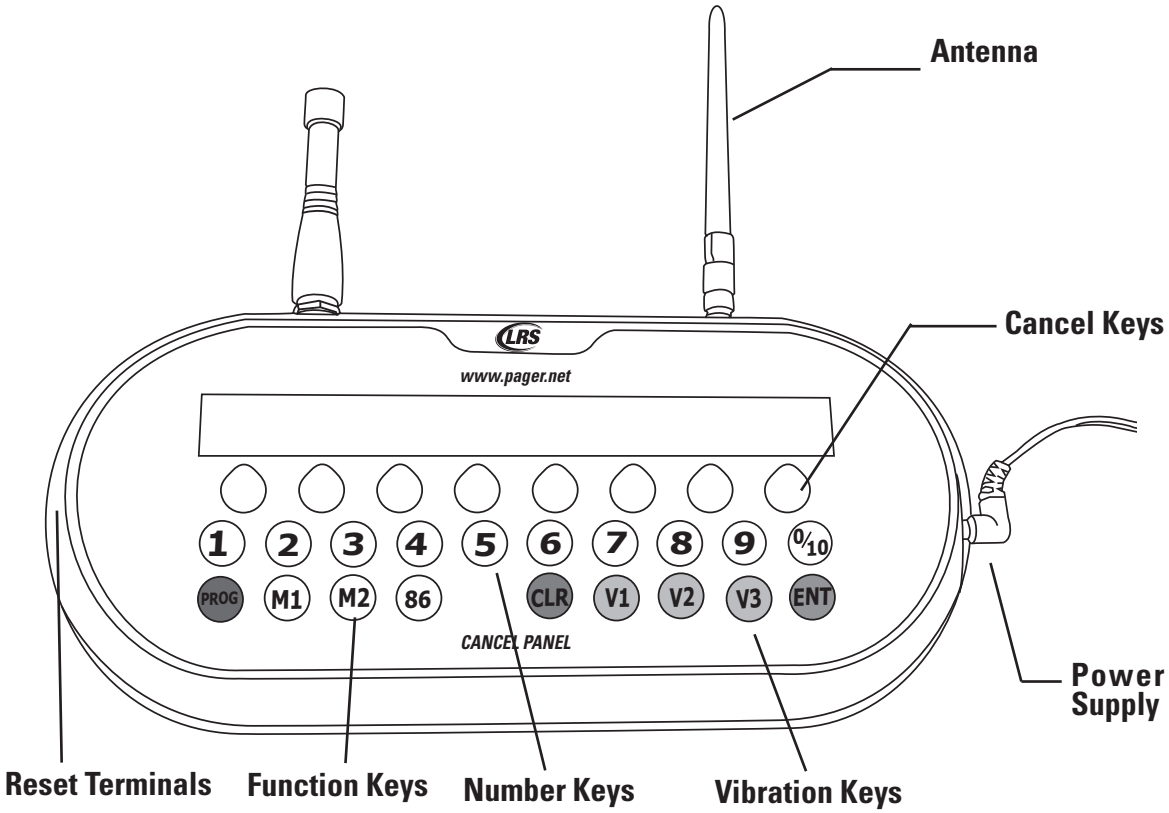
1. Be sure to set the T9100 for the System ID in use.
2. Be sure the POCSAG (FM) start is correct for the pagers in use.
3. Reset the pager:
   - Rechargeable pagers are removed from the charger (or touched to the reset terminals. They stop vibrating when reset is complete.)
   - Battery powered pagers reset when turned off and then back on (or remove and replace battery).
4. Press PROG- # - ENT (# is the pager number 1 through 99).
5. After the pager responds, page it to ensure it programmed okay.
   - Star pagers will do one glow mode cycle.
   - Alpha pagers will beep 4 times.

For Manager Pagers:

1. Be sure to set the T9100 for the System ID in use.
2. Be sure the POCSAG (FM) start is correct for the pagers in use.

T9100 CANCEL PANEL

Overview of T9100 Cancel Panel



Keypad

Function Keys

The function keys are located along the bottom row of the Cancel Panel.

- **M1 & M2** used to page and program Manager Pagers.
- **86** "All Call" button used to page all pagers.
- **CLR** used to clear an entry or to back up one menu level.
- **PROG** press once to program pagers, press a second time to access the menu functions.
- **ENT** used to enter functions.

Vibration Keys

V1, V2 and V3 select the number of vibrations a pager will respond with. This button is pressed before paging a pager. Sends message 1, 2 or 3 to Alpha pagers.

Cancel Keys

The row of keys located below the display. These keys will cancel a call to the pager number shown on the display immediately above the respective key. The Cancel Keys also are used during menu selection.

Using the T9100 Cancel Panel

Paging

To page pagers 1 though 99 enter the 2 digit number of the pager.

The transmitter can page up to 16 pagers at one time without using the 86 “all call” button.

When paged, the pager number will show on Cancel Panel display. If not canceled, the pager number will begin to flash after the first re-page time expires. The pager number will flash faster after the second re-page time expires.

Cancel Page

To Cancel a page, press the Cancel Key immediately under the number of the pager.

If using a Cancel Panel with T9100, the pager number may be canceled from the Cancel Panel or by pressing CLR then the pager number on the T9100.

User Preferences

The T9100 Cancel Panel operates as a "Slave" to the T9100. Many settings are transmitted to the Cancel Panel via the T9100.

To edit preferences, refer to the User Preferences of the T9100. Note: To enter selections greater than 10, the user will need to enter as two numbers. Example, enter 15 by pressing 1 and then 5.

Paging from Cancel Panel

This feature enables or disables the Cancel Panel from paging pagers. This feature is only available and only set on the Cancel Panel. The default setting is On to page pagers. To disable:

- Press PROG – PROG – 1 – 7.
- At [CP Paging] press the cancel button under OFF.
- If done, select Yes (button under Yes), if not, select No (button under No.)

To enable

- Press PROG – PROG – 1 – 7 – ENT.
- At [CP Paging] press the cancel button under ON.
- If done, select Yes (button under Yes), if not, select No (button under No.)

Associating the T9100 Cancel Panel to T9100

1. Apply power to T9100 and allow it to boot up.
2. Press PROG – PROG – 19– ENT, and then press 10 to Set the channel.
3. Input a channel between 11 and 26, and then press ENT.
4. Press ENT to accept Pan ID.
5. Allow T9100 to reset.
6. While T9100 is resetting, on T9100 Cancel Panel, apply power to the Cancel Panel and allow it to boot up.
7. Press PROG – PROG – 1 – 9 – ENT, and then press the button under SET to Set the channel.
8. Enter the same channel as set on T9100, then press ENT.
9. Press ENT to accept Pan ID.
10. On T9100, press PROG – PROG – 29 to start Associate mode. NOTE: The T9100 will stay in Associate for 2 minutes.
11. On Cancel Panel, press PROG – PROG – 2 – 9 – ENT to start Associate mode. When the Cancel Panel associates, it will display :
    - Attempt Join
    - PAN Found
    - Then display channel and Pan ID.

    Note: If the Cancel Panel fails to join, the display will show Attempt Fail. Note: The channel and Pan ID of the T9100 and Cancel Panel must match to associate.
12. After associating, Exit by pressing CLR. The time displayed on the Cancel Panel should take about 10 seconds to match the displayed time of the T9100 to within about a second.
13. Repeat steps 6 through 12 for additional Cancel Panels.

Setting T9100 Cancel Panel as UHF Master

The Cancel Panel can be set to act as the UHF Master of a system of T9100 and other Cancel Panels to page LRS Pagers.

To enable the Cancel Panel as UHF Master:

- Press PROG – PROG – 1 – 8 – ENT.
- Press the button under Yes to select Yes.
- If done, select Yes (button under Yes), if not, select No (button under No.)

To enable the T9100 as UHF Master

- Press PROG – PROG – 18.
- Press the button under Yes to select Yes.
- If done, select Yes (button under Yes), if not, select No (button under No.)

SERVICE QUESTIONS AND ANSWERS

Should your paging system ever fail or should you need additional paging supplies, call Long Range Systems at (800) 437-4996.

Normal Business Hours

Monday – Friday 8:30 am to 5:00 pm Central Time.

Weekend or Night Emergencies:

- Long Range Systems has 24/7 live technical support available.
- Please keep in mind that replacement options are limited over the weekend.

LRS PAGERS AVAILABLE FOR THE T9100

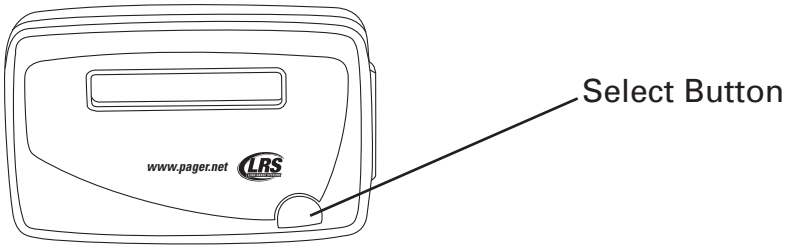
(These pagers are sold separately)

SP5 Rechargeable Alpha

LRS Alpha E467

Star Rechargeable Pager

USING THE SP5



Charging

Any rechargeable pager will require use of an LRS charger. The SP5 uses the Charger 5 (CH-R5)

1. Place the pager in the charger
2. Allow unit to charge fully overnight.
3. Remove from charger and the pager will vibrate or beep to show it is working.
4. The LCD will show the pager's ID
5. Return the pager to the charger at the end of each day

Menus

To access the vibe/contrast menu, simply remove the pager from the charger or use the reset terminal on the T9100. While it is vibrating or beeping, press and hold the Select Button for 8 seconds. The following top level menu will display:

. If you PRESS and RELEASE the Select Button, the menu selector will scroll to the right and will highlight "Contrast

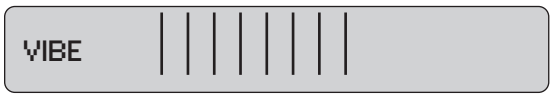
To exit this menu wait 8 seconds

To re-enter the vibe/contrast menu at any time, reset the pager, and then hold the SP5 pager button.

Vibe

To set the Vibration Level:

1. Remove the pager from the charger
2. While vibrating or beeping, press and hold the Select Button for 5-8 seconds
3. Highlight the Vibe selection then PRESS and HOLD the Select Button until the screen shows.



4. Press or hold the Select Button until the desired vibration level is selected
5. If holding down on the Select Button, the vibe level will increase to max and then decrease towards the minimum
6. Release the Select Button when desired vibration level has been reached
7. To exit, wait 8 seconds and the pager will go back to the vibe/contrast menu

Contrast

To set the Contrast Level

1. Remove the pager from the charger
2. While vibrating or beeping, press and hold the Select Button for 5-8 seconds
3. Highlight the Contrast selection then PRESS and HOLD the Select Button until the screen shows.

4. Press or hold the Select Button until the desired contrast is selected
5. If holding down on the Select Button, the contrast level will increase to Max (NOTE: screen could be dark and hard to read)
6. Release the Select Button and press or hold again to change the level back towards the minimum or until your desired contrast is selected
7. To exit, wait 8 seconds and the pager will go back to the vibe/contrast menu

8. To exit this menu wait 8 additional seconds

Settings

To view the current pager settings

1. Remove pager from the charger or reset on the T9601, T9100, or T9101 reset terminals.
2. Press the Select Button repeatedly to scroll through the settings:
   C1: [System ID number] and Pager ID number
   C2: [System ID number] and All Page number
   C3: [System ID number] and System ID number
   G: Group number
   Enc: Encryption enabled (128) or none
   Ver: Current Firmware Version
3. To exit, wait 8 seconds.

Messages

The pager stores the last 5 received messages.

To view the messages:

1. At the (blank screen/time & date) menu display, press the Select Button once
2. Messages 2 lines in length will show a > symbol at the end of the first line and a < symbol at the beginning of the second line
3. Messages over 2 lines in length, the middle lines will show "< the next line of the message >"
4. Press the Select Button to continue scrolling forward through the message or messages

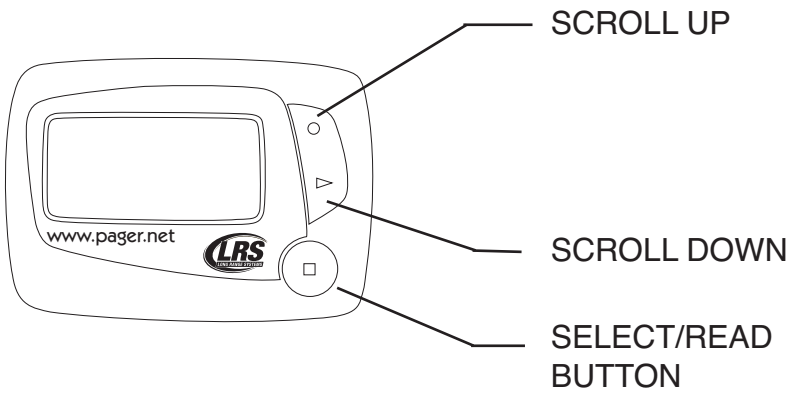
Time

Pager will display the current time. This feature is automatically updated by the T9100 transmitter. If the time does not appear, a flashing star will appear on the right side of LCD to show pager is operational.

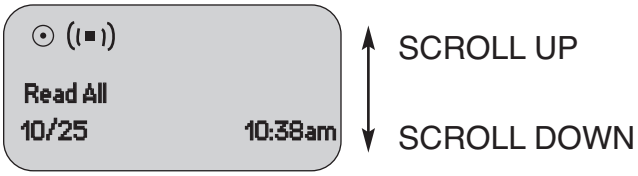
Reprogramming and Reset

To reset and reprogram the pager, see Pager Programming of this document.

USING THE LRS ALPHA E467



Menus



Selecting functions

1. From Read All screen, press Up (or Down) Scroll button until desired selection displays
2. Press Read/Select button to select item
3. Press Up (or Down) Scroll button to choose/adjust
4. Press Read/Select to confirm/set

Power On/Off

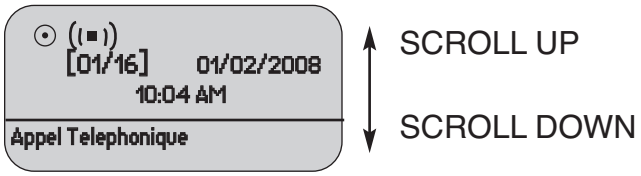
Set ON (if unit is off)

1. Press and hold Scroll Up until YES/NO shows.
2. At "Power ON?" use Up (or Down) Scroll button to select **YES**
3. Press Read/Select button to set

Set OFF

1. Using the Up (or Dn) scroll button scroll until display shows "Power OFF?"
2. Press Read/Select button to set power on/off
3. At "Power OFF?" screen, use Up (or Down) Scroll button to select **YES**
4. Press Read/Select button to set

Read Message



- Messages are displayed upon receipt.
- Press Read/Select to display.

To review stored messages:

1. Select "Read All?"
2. Press Read/Select to display messages and time stamps
3. Use the Up (or Down) Scroll button to scroll through messages

Delete Messages

1. Using the Up (or Down) scroll button, scroll until display shows "Delete All?"
2. Press Read/Select
3. Use the Up (or Down) scroll button to select **Yes** or **No**
4. Press Read/Select button to confirm

Time/Date Set

1. Using the Up (or Down) scroll button scroll until display shows "Set Time/Date"
2. Press Read/Select to set time/date
3. Press Up (or Down) scroll button to set each time or date segment and press Read/Select to move through the segments

Set Contrast

1. Using the Up (or Down) scroll button scroll until display shows "Set Contrast"
2. Press Read/Select
3. Use the Up (or Down) scroll button to adjust
4. Press Read/Select to confirm

Auto ON/OFF

1. Using the Up (or Down) scroll button scroll until display shows "Auto ON/OFF"
2. Press Read/Select to set auto on/off
3. Use the Up (or Down) scroll button to select **On** or **Off**
4. Press Up (or Down) scroll button to set on/off time and press Read/Select to move through the segments

Set Key Tone On/Off

1. Using the Up (or Down) scroll button scroll until display shows "Set Key Tone"
2. Press Read/Select to set key tone on/off
3. Use the Up (or Down) scroll button to select **On** or **Off**
4. Press Read/Select to set

Select Alert

1. Using the Up (or Down) scroll button scroll until display shows “Set Alert Mode”
2. Use the Up (or Down) scroll button to select Beep/Vibe Off
3. Press Read/Select to set:

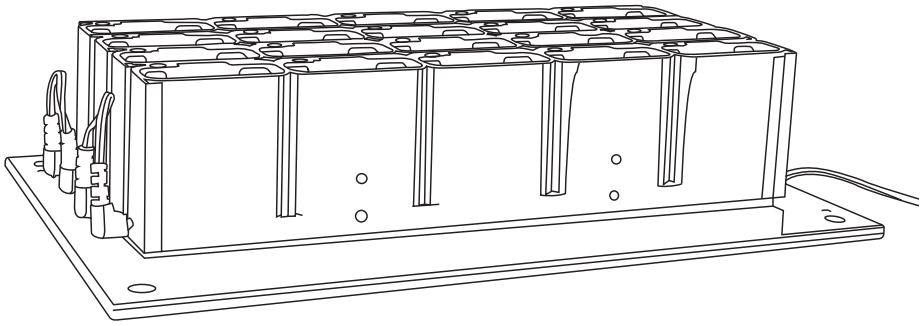
Beep - Use the Up (orDown) scroll button to select:

- Select Loud or Soft and press Read/Select to set
- Select Duration (seconds) and press Read/Select to set

Vibe Off - Use the Up (or Down) scroll button to select

- Press Read/Select to set

Using the Star Pager



Charging

Any rechargeable pager will require use of an LRS charger. The Star Pager (SP4) uses the Charger 9 (CH-R9)

1. Place the pager in the charger
2. Allow unit to charge fully overnight (at least 24 hours)
3. Remove from charger, and pager will vibrate, beep, and light
4. Replace the pager in the charger at the end of each day

Messages

The pager can vibrate, beep, and light up message lights.

- Star pagers are intended to vibrate the number of times determined by the Vibe mode selected. On the T9100 this is done by choosing the V1, V2 or V3 button. This can be a way to send additional information or to identify 1 of 3 stations.
- On the front of the pager are four lights 1 through 4. In normal operation each "station" or T9100 would be set for different STATION ID's (e.g. kitchen is station 1, etc.) Each station will also send different messages (example 1st light for station 1, 2nd light for station 2, 4th and 1st light for station 5, etc.). So if they were paged they can look down at the pager to see which station sent the message (which light was lit). As an option you can also send the message as a V1 for a station one message, or V2 for station 2, or V3 for station 3. This will enable the person being paged to avoid having to look down to see the lights.

Cleaning & Charging Instructions For LRS Paging Equipment

Cleaning:

LRS pagers are made from industrial-strength, polycarbonate material. However, this material is susceptible to hairline cracking if non-approved cleaners are used. When cleaning LRS pagers, we recommend only using ISOPROPYL ALCOHOL-BASED CLEANERS.

To clean the equipment:

1. Take a clean rag and an isopropyl-alcohol based cleaner
2. Soak the clean rag with the isopropyl alcohol cleaner
3. Wipe down the pagers or equipment.

Cleaning equipment with any other non-approved cleaners can weaken plastic and cause hairline cracks. Pagers and equipment that are cleaned with unapproved cleaners and suffer cracking will not be covered under warranty.

Do not submerge any LRS paging equipment in any type of liquid as this will also damage the equipment and is not covered under the standard warranty.

Charging:

Place rechargeable pagers on the charger and let them charge for 8 hours prior to first use.

Rechargeable pagers should be kept on charge even during extremely long periods of inactivity.

Only 10 VAC power supplies should be used with LRS chargers and transmitters. DC power supplies will cause damage to equipment that is not covered under the standard warranty.

Should you have any questions, please contact the LRS Customer Service Department at 800.437.4996.

Warranty

Long Range Systems, Inc. warrants this product against any defects that are due to faulty material or workmanship for a two-year period after the original date of consumer purchase. This warranty does not include damage to the product resulting from accident, misuse or improper electrical connection. If this product should become defective within the warranty period, we will repair or replace it with an equivalent product, free of charge. LRS will return your product via UPS ground shipping. All warranty claims must be initiated through our customer service department.

Copyright © August 2009, Long Range Systems, Inc. All Rights Reserved

This manual contains proprietary information of Long Range Systems, Inc. (LRS) and is intended for use only by its employees or customers. None of the material contained herein may be copied, reproduced, republished, downloaded, displayed, posted, or transmitted in any form or by any means, including but not limited to, electronic, mechanical, photocopying, recording, or otherwise without the prior written permission of LRS. Additional copies of this manual may be obtained by contacting LRS.

Screen displays, keyboard layouts, hardware descriptions, or software are proprietary to LRS and are subject to copyright and other intellectual property rights of LRS and shall be treated in accordance with the previous paragraph.

All attempts have been made to make the information in this document complete and accurate. LRS is not responsible for any direct or indirect damages or loss of business resulting from inaccuracies or omissions. Specifications and other information contained within this document are subject to change without notice.

Long Range Systems, Inc. reserves the right to make changes without further notice to any products herein. LRS, Inc. makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does LRS, Inc. assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation consequential or incidental damages. "Typical" parameters that may be provided in LRS, Inc. data sheets and/or specifications can and do vary in different applications and actual performance may vary over time. All operating parameters, including "Typicals", must be validated for each customer application by customer's technical experts. LRS, Inc. products are not designed, intended, or authorized for use as components in systems intended to support or sustain life, or for any other application in which the failure of the LRS, Inc. product could create a situation where personal injury or death may occur. Should Buyer purchase or use LRS, Inc. products for any such unintended or unauthorized application, Buyer shall indemnify and hold LRS, Inc. and its officers, employees, subsidiaries, affiliates, and distributors harmless against all claims, costs, damages, and expenses, and reasonable attorney fees arising out of, directly or indirectly, any claim of personal injury or death associated with such unintended or unauthorized use, even if such claim alleges that LRS, Inc. was negligent regarding the design or manufacture of the part, device or system.

EU DECLARATION OF CONFORMITY

We, Long Range Systems hereby declare under our sole responsibility that the T9100 and T9100CP paging transmitters and on-site pagers comply with the essential requirements in the European RE&TTE Directive 1999/5/EC of the European Parliament of the Council of 9 March 1999 on radio equipment and telecommunication terminal equipment and the mutual recognition of their conformity. The following standards were utilized:

ETS 300 224: 1998
EN 301 489-2: 2002
EN61000-3-2: 1998
EN 61000-3-3: 1995
EN 60950: 1992 with A1, A2, & A3

Long Range Systems UK Ltd | Link House | Leek Road | Milton | Stoke on Trent | Staffordshire | ST2 7AH | 01782 537000
www.lrspagers.co.uk | www.pagers.co | www.hospitalpagers.co.uk